



# TETRAClean 105 Surfactant

## DISPLACEMENT SYSTEM

### Overview

TETRAClean 105 displacement system is an environmentally-friendly, proprietary blend of non-ionic surfactants designed to rapidly and effectively remove water-, oil-, and synthetic-based oil muds from metal surfaces.

### Features and Benefits

- Can be used onshore and offshore as the surfactant component in a onestep cleanup or as part of a pill train.
- Compatible with sodium and calcium clear brine fluids and can be used to formulate a weighted cleanup spacer pill.
- Effective cleaner for pits, lines, and surface equipment prior to receipt of clear brine fluids onsite.
- Has been given a GOLD CHARM category in the United Kingdom.

### Application Information

Add TETRAClean 105 displacement system at the recommended treatment rate, and agitate gently to promote uniform mixing. TETRAClean 105 displacement system is typically used at 2 - 6% vol/vol in a surfactant wash pill in seawater or fresh water. The recommended treatment rate of TETRAClean 105 displacement system in heavy clear brine fluids may range from 5 -10% vol/vol. TETRAClean 105 displacement system can be used with TETRAClean 106 in formulation of a TETRAClean displacement system.

### Physical Properties

Appearance	Clear-pale yellow liquid
Specific gravity	0.98 - 0.99 @ 20°C
pH	5.5 - 7.5
Flash Point	> 130°C
Water Solubility	Soluble

### Packaging Information

200 liter drum  
1000 liter IBC

### Recommended Treatment

TETRAClean 105 displacement system is added at 1 drum per 100 bbl of fresh water for clean up of surface equipment. Treatment rate for TETRAClean 105 displacement system used in wellbore cleanup can range from 2% to 10% vol/vol.

### Safety and Handling

Avoid skin and eye contact, inhalation or ingestion. For skin contact, wash with soap and large quantities of water. For eye contact, flush with large quantities of water. Use properly designed respirator if adequate ventilation is not available. Refer to the Safety Data Sheet for specific details.

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